

# LOW PRESSURE LAMINATE GAS ASSIST MOLDING

## Abstract

A system and process for gas-assisted injection molding of plastic materials to form laminate-type products. A laminate material is positioned in a mold and the mold is closed to a pre-set position, leaving a gap. Plastic material is injected into the mold cavity onto the laminate material, and gas is injected into the plastic material. Thereafter, the mold is closed, compressing the gas in the plastic material. Once the process is complete and the plastic has cooled, the gas is vented from the molded component, the mold is opened, and the completed molded part is removed.